

# XP-002326425

(C) WPI/Derwent

AN - 1986-079176 [25]  
AP - JP19840151047 19840720; JP19840151047 19840720; [Based on J61028590 ]  
CPY - MIYO  
DC - H08 M21  
FS - CPI  
IC - C10M101/04 ; C10M105/26 ; C10M109/02 ; C10M173/00 ; C10N20/02 ;  
C10N30/06 ; C10N40/22 ; C10N40/22 ; C10N40/24 ; C10N60/02 ; C10N60/02  
MC - H07-X M21-B03  
PA - (MIYO ) MIYOSHI YUSHI KK  
PN - JP61028590 A 19860208 DW198612 005pp  
- JP4073477B B 19921120 DW199251 C10M109/02 005pp  
PR - JP19840151047 19840720  
XA - C1986-034080  
XIC - C10M-101/04 ; C10M-105/26 ; C10M-109/02 ; C10M-173/00 ; C10N-020/02 ;  
C10N-030/06 ; C10N-040/22 ; C10N-040/22 ; C10N-040/24 ; C10N-060/02 ;  
C10N-060/02 ; (C10M-101/04 C10M-105/26 C10M-109/02)  
AB - J61028590 Fluid compsn. contains maleinated hydrogenated fish oil  
having 40-20,000 cp viscosity at 38.8 deg.C obtd. by allowing maleic  
anhydride to react with hydrogenated fish oil having 50-120 iodine  
value.  
- The hydrogenated fish oil is optionally selected from any kinds of  
fish oil except one not extremely oxidised or polymerised. The  
hydrogenation is carried out by a conventional catalytic process, e.g.  
using 0.2-1.0 wt.% (based on the amt. of the oil) Ni catalyst at  
160-200 deg.C under 1.0-4.0 kg/cm<sup>2</sup> H<sub>2</sub> pressure. Preferred iodine value  
after hydrogenation is 50-120, more pref. 60-100. The maleination  
reaction is carried out noncatalytically or using a conventional  
catalyst at 150-250 deg.C with a proportion of 0.1-4.0, pref. 0.5-2.5  
mole maleic anhydride to 1 mole hydrogenated fish oil.  
- USE/ADVANTAGE - When at least 4 wt.% maleinated oil is added to an  
animal or vegetable oil, mineral oil, other oily agent or extreme  
pressure additive, a satisfactory metal working performance is obtd..  
The maleinated oil has self-emulsifiability. The amt. of surface  
active agent used for utilising the oil for an aq. metal working oil  
is significantly saved and the obtd. metal working oil causes little  
frothing. An oil-soluble metal working fluid having superior lubricity  
is obtd. by adding the maleinated oil to mineral oil, synthetic oil or  
animal or vegetable oil.  
C - C10M109/02 C10M101/04 C10M105/26  
IW - METAL WORK FLUID CONTAIN MALEINISED FISH OIL PREDETERMINED  
VISCOSITY  
IKW - METAL WORK FLUID CONTAIN MALEINISED FISH OIL PREDETERMINED  
VISCOSITY  
NC - 001  
OPD - 1984-07-20  
ORD - 1986-02-08  
PAW - (MIYO ) MIYOSHI YUSHI KK  
TI - Metal working fluid - contains maleinated fish oil of predetermined  
viscosity